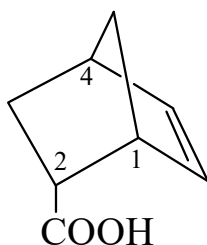




>>Entry Name: Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 9CI

Synonym(s): Norbornene-5-carboxylic acid



(1*R*,2*R*,4*R*)-form

CAS Registry Number: 120-74-1

Related CAS Registry Numbers(s): 117835-14-0

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Aldrich: 44644-0

Rare Chemicals Library: S3865-3

>>Variant: (1*R*,2*R*,4*R*)-form

Synonym(s): (+)-*endo*-form

CAS Registry Number: 58001-99-3

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Boiling Point: Bp₈ 115-117°

Optical Rotation: [α]_D¹⁸+72.4 (c, 2.62 in EtOH) (50% op)

>>Derivative: Me ester

CAS Registry Number: 92936-03-3

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Physical Description: Oil

Optical Rotation: [α]_D²²+136 (c, 0.5 in EtOH)

>>Variant: (1*R*,2*S*,4*R*)-form

Synonym(s): (+)-*exo*-form

CAS Registry Number: 67999-53-5

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Boiling Point: Bp_{0.6} 88-89°

Optical Rotation: [α]_D¹⁵+8.6 (c, 1.25 in EtOH) (50% op)

>>Variant: (1*S*,2*R*,4*S*)-form

CAS Registry Number: 108266-75-7

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Melting Point: Mp 36-38°

Optical Rotation: [α]_D²⁰-12.1 (c, 5 in EtOH) (71%op)